

WHAT IS CLAIMED IS:

1. Self-adhesive surface protection film comprising a layered laminate produced by coextrusion, said laminate comprising:

(a) a carrier layer and

(b) an adhesive layer comprising a member selected from the group consisting of polyisobutylene, a styrene block copolymer, and mixtures thereof.

2. The surface protection film according to claim 1 wherein said adhesive layer comprises a styrene block copolymer selected from the group consisting of:

a styrene/isoprene/styrene (SIS) copolymer,

a styrene/ethylene/butylene/styrene (SEBS) copolymer,

a styrene/ethylene/propylene/styrene (SEPS) copolymer,

and

a styrene/butadiene/styrene (SBS) copolymer, or

a mixture of one or more styrene block copolymers selected from said group.

3. The surface protection film according to claim 1 wherein said adhesive layer comprises a styrene block copolymer selected from the group consisting of:

a styrene/isoprene/styrene (SIS) copolymer, and

a styrene/butadiene/styrene (SBS) copolymer, and

having a di-block content of less than 15% by weight.

4. The surface protection film according to claim 3, wherein the di-block content is less than 1 % by weight.

5. The surface protection film according to claim 1 wherein said film has an adhesive strength after storage at room temperature for 24 hours of between 0.15 N/cm and 3.5 N/cm.

6. The surface protection film according to claim 1, wherein said adhesive layer comprises a mixture of a styrene block copolymer and polyolefins.

7. The surface protection film according to claim 1, wherein said adhesive layer comprises a mixture of styrene block copolymer and amorphous poly alpha olefins.

8. The surface protection film according to claim 1, wherein said carrier layer is made from a polyolefin.

9. The surface protection film according to claim 1, further comprising a bonding agent layer arranged between said carrier layer and said adhesive layer.

10. The surface protection film according to claim 1, wherein said carrier layer has a thickness of 20 to 80 μm and said adhesive layer has a thickness between 4 and 20 μm .

11. The surface protection film according to claim 1, wherein said layered laminate produced by coextrusion has a

release layer on a side of said carrier layer facing away from said adhesive layer.

12. The surface protection film according to claim 11, wherein said release layer comprises a member selected from the group consisting of talcum, chalk, silicic acid, polyamide wax, and mixtures thereof.

13. The surface protection film according to claim 11, wherein said release layer has a micro-embossed surface produced by an embossing roller.